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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/072,039	02/05/2002	Oliver Schreck	P02,0018	3794
26574	7590 03/23/2		EXAM	INER
SCHIFF HARDIN, LLP			ROY, BAISAKHI	
PATENT DI 6600 SEARS	EPARTMENT S TOWER		ART UNIT	PAPER NUMBER
	IL 60606-6473		3737	
			DATE MAILED: 03/23/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

EN

	Application No.	Applicant(s)				
Office Action Summers	10/072,039	SCHRECK, OLIVER				
Office Action Summary	Examiner	Art Unit				
	Baisakhi Roy	3737				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 14 Ja	Responsive to communication(s) filed on <u>14 January 2005</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-15</u> is/are rejected.	6)⊠ Claim(s) <u>1-15</u> is/are rejected.					
-) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers		,				
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>14 January 2005</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	•					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-9 and 12-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Jesmanowicz et al. (5603322).

Regarding claims 1, 2, 4-6, 7, 14, and 15, Jesmanowicz et al. disclose a method and apparatus for functional MRI including obtaining and storing a plurality of images with and without stimulation together with information indicating whether the image was registered with or without stimulation and with at least one image related stimulation value such as the type of stimulation and information describing a point in time of said stimulation (col. 2 lines 41-67, col. 10 lines 45-60). Jesmanowicz et al. further teach determining an "image-related correlation values" or images wherein points of highest intensity correspond to points of highest correlation or coincidence to better differentiate between activated and non-activated brain regions (col. 3 lines 6-18, col. 6 lines 23-38 and claim 1). The reference further teaches filtering out some images that should be ignored during the evaluation (col. 3 lines 51-66).

Regarding claims 3, 9, 12, and 13, Jesmanowicz et al. further teach triggering a neural activity by a stimulus or sensory stimulator which could be in the form of optical

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stimulation and a stimulation source to measure the pulse intensity of an electrical pulse (col. 10 lines 45-60).

Regarding claim 8, Jesmanowicz et al. teach obtaining information describing the intensity level of the applied stimulus (col. 2 lines 57-60).

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over

 Jesmanowicz et al in view of Apkarian et al. (6018675). Jesmanowicz et al. teach a

 functional MRI method and apparatus for obtaining images with and without stimulation

 as set forth above, but do not explicitly teach the use of a pressure-exerting stimulus. In
 the same field of endeavor, Apkarian et al. disclose a pain measurement system based
 on comparative functional magnetic resonance imaging (MRI) of the brain of a subject.

 In the disclosed system, measurements quantifying a subject's pain level are made by
 comparing images of the subject's brain when the subject is in pain with the
 corresponding brain images made when the subject is not in pain (abstract, col. 2 lines
 43-53). It would have therefore been obvious to one of ordinary skill in the art to use the
 pressure-exerting stimulation source teaching by Apkarian et al. to modify the teaching
 by Jesmanowicz et al. for the purpose of imaging a subject's response to pain or
 pressure.

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3. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jesmanowicz et al. in view Kassai et al. (5771893). Jesmanowicz et al. as set forth above, teach a functional MRI method and apparatus for obtaining images with and without stimulation but do not explicitly teach the use of an acoustic stimulus. In the same field of endeavor, Kassai et al. disclose a method and apparatus of obtaining functional images with and without stimulation (abstract) with said stimulation being an acoustic stimulation (col. 12 lines 39-45). It would have therefore been obvious to one of ordinary skill in the art to use the acoustic stimulation teaching by Kassai et al. to modify the teaching by Jesmanowicz et al. for the purpose of obtaining images of a subject's response to an acoustic stimulation.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO 892 for relevant references of interest.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baisakhi Roy whose telephone number is 571-272-7139. The examiner can normally be reached on M-F (7:30 a.m. - 4p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian L. Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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B.R.

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